SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Canon C400 Black Toner
Product Code: 1375A / F41-9001
Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph#03-3758-2111.
Supplier: Canon USA Inc., One Canon Park, Melville, NY 11747, USA
Phone #: 1-800-OK-CANON 24Hr. Emergency CHEMTREC #1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

EU Classification: Not classified as dangerous
Emergency Overview: Black fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation:
- Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:
- Practically non-toxic based on animal testing. Ingestion is a minor route of entry for intended use of this product.

Eye:
- May be non-irritant.

Skin:
- May cause transient slight irritation.

Chronic Effects:
- Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Chemical Name / Generic Name</th>
<th>CAS # / EC #</th>
<th>Weight %</th>
<th>EU Symbol/ R-Phrase</th>
<th>USA OSHA PEL</th>
<th>ACGIH TLV</th>
<th>EU ILV</th>
<th>DFG MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron oxide</td>
<td>1317-61-9/215-277-5</td>
<td>40-50</td>
<td>None/ None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Styrene acrylate copolymer</td>
<td>Confidential</td>
<td>35-45</td>
<td>None/ None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
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</tr>
<tr>
<td>Styrene polymer</td>
<td>Confidential</td>
<td>5-15</td>
<td>None/ None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9/231-545-4</td>
<td>1-2</td>
<td>None/ None</td>
<td>20 mppcf, 80(mg/m^3)/%SiO_2</td>
<td>Not established</td>
<td>Not established</td>
<td>4mg/m^3 (Inhalable fraction)</td>
<td></td>
</tr>
</tbody>
</table>

< Carcinogen>
No component of this toner is listed as human carcinogen or potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

< PBT substance and vPvB substance>
No component of this toner is a PBT or vPvB substance under Regulation (EC)1907/2006.
SECTION 4    FIRST AID MEASURES

First Aid Measures:

Inhalation:  
If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:  
Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

Eye:  
Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Skin:  
Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:
None

SECTION 5    FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:  
CO2, water, dry chemicals

Unsuitable Extinguishing Media:  
None

Special Fire Fighting Procedures:  
None

Unusual Fire and Explosion Hazards:  
Can form explosive dust-air mixtures when finely dispersed in air.

Fire and Explosive Properties (See also SECTION 9):

Hazardous Combustion Products:  
CO2, CO

Other Properties:  
Not available

SECTION 6    ACCIDENTAL RELEASE MEASURES

Personal Precautions:  
Avoid breathing dust.

Environmental Precautions:  
Do not wash away into sewer.

Method for Cleaning Up:  
Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.  
If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

SECTION 7    HANDLING AND STORAGE

Handling:  
Avoid breathing dust.  
Use with adequate ventilation.

Storage:  
Keep out of the reach of children.  
Keep away from oxidizing materials.

Specific Uses:  
Toner for electrophotographic apparatus.  
For more information, please refer to the instruction of this product.
SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction)
ACGIH TLV (TWA):  10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction)
DFG (MAK):                      4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction)
(Also refer to SECTION 3)

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

Respiratory Protection:  ☑ Required  ☐ Not Required
Eye/Face Protection:  ☑ Required  ☐ Not Required
Skin Protection:  ☑ Required  ☐ Not Required

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Appearance:  Black fine powder
Odor:  Slight plastic odor
pH:  Not applicable
Boiling Point/Range(°C):  100-150 (Softening point)
Decomposition Temperature(°C):  > 200
Flash Point(°C):  Not applicable
Flammable (Explosive) Limits:  Not available
Autoignition Temperature(°C):  Not available

Explosive Properties:  Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:  Not available
Vapor Pressure:  Not applicable
Vapor Density:  Not applicable
Density / Specific Gravity:  1.4-1.6
Water Solubility:  Negligible
Fat Solubility:  Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water):  Not applicable
Percent Volatile:  Negligible
Evaporation Rate:  Not applicable
Viscosity (mPa s):  Not applicable
SECTION 10  STABILITY AND REACTIVITY

Stability:  □ Stable
           ☒ Unstable

Conditions to Avoid:  None

Materials to Avoid:  Strong oxidizers

Hazardous Decomposition Products:  CO, CO2

Hazardous Polymerization:  □ May Occur
                           ☒ Will Not Occur

Conditions to Avoid:  None

SECTION 11  TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:  Not available

Ingestion:  Rat, LD50 > 5000 mg/kg

Eye:  Rabbit, transient slight conjunctival irritation only.

Skin:  Rabbit, non-irritant

Sensitization:

Estimate:  Guinea pig, skin: Non-sensitizing (See SECTION 16)

Mutagenicity:

Ames Test (Salmonella typhimurium): Negative

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Chronic effects:

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m³ which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m³. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

Date of Issue:  March 31, 1998
Revised:  July 12, 2007
### SECTION 12 ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
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</tr>
<tr>
<td>Persistence / Degradability</td>
<td>Not available</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td>Estimate: Fish, 96h LL50 &gt; 1000 mg/l (WAF)</td>
</tr>
<tr>
<td></td>
<td>Estimate: Crustaceans, 48h EL50 &gt; 1000 mg/l (WAF)</td>
</tr>
<tr>
<td></td>
<td>Estimate: Algae, EbL50(72h), ErL50(0-72h) &gt; 1000 mg/l (WAF) (See SECTION 16)</td>
</tr>
</tbody>
</table>

**Other Adverse Effects:** Not available

### SECTION 13 DISPOSAL CONSIDERATIONS

**Method of Disposal:**

Do not put toner or toner container into fire; heated toner may cause severe burns. Do not shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

### SECTION 14 TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>UN #</td>
<td>None</td>
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<tr>
<td>UN Shipping Name</td>
<td>None</td>
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<tr>
<td>UN Classification</td>
<td>None</td>
</tr>
<tr>
<td>UN Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Chemical name (wt%)</td>
<td>None</td>
</tr>
</tbody>
</table>

**Special Precautions:** None

### SECTION 15 REGULATORY INFORMATION

**< EU Information >**

**Information on the Label:**

- **Symbol & Indication:** Not required
- **R-Phrase:** Not required
- **S-Phrase:** Not required
- **Dangerous Component(s):** Not required
- **Special Precautions under 1999/45/EC Annex V:** Not required

**Specific Provisions in Relation to Protection of Man or the Environment:**

- **76/769/EEC:** Not regulated
- **(EC)2037/2000:** Not regulated
- **(EC)304/2003:** Not regulated
- **Others:** None

**Date of Issue:** March 31, 1998

**Revised:** July 12, 2007
MATERIAL SAFETY DATA SHEET

< USA Information >

Information on the Label under OSHA:

Signal Word: Not required

Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): Not required

SARA Title III §313:

Chemical Name Weight %

California Proposition 65:

Chemical Name Weight %

None

< Canada Information >

WHMIS Controlled Product: Not a controlled product

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

Revised information from the previous version: Entirely revised

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

Literature References:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- DFG, List of MAK and BAT Values
- Canada Workplace Hazardous Materials Information System

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Abbreviations:
EU: European Union.
OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA).
ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.
TWA: Time Weighted Average.
STEL: Short Term Exposure Limit.
IARC: International Agency for Research on Cancer.
NTP: National Toxicology Program (USA).
WAF: Water Accommodated Fraction.
LL: Lethal Loading rate.
EL: Effective Loading rate.
OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).
FHSA: Federal Hazardous Substances Act (USA).
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.

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